## BEST AVAILABLE COPY

#### AMENDMENTS TO THE CLAIMS

#### 1-51 (Cancelled)

- 52. (Currently Amended) An isolated protein produced by expression from a first nucleic acid sequence within a nucleic acid molecule, wherein characterized by:
- (a) said first nucleic acid sequence comprising a means-for-encoding encodes a Dermatophagoides farinae mapB protein, wherein said encoded Dermatophagoides farinae mapB protein-binds an antibody produced against a protein having the amino acid sequence of SEQ ID NO:15 selectively binds to said encoded Dermatophagoides farinae mapB protein; and
- (b) a second nucleic acid sequence is operatively linked to said first nucleic acid sequence, wherein said second-nucleic acid-sequence constitutes a means for promoting and promotes expression of said first nucleic acid sequence.
- 53. (Currently amended) The isolated protein of Claim 52, wherein said isolated protein comprises an amino acid sequence at least about 90% identical to SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:18 or SEQ ID NO:21.
- 54. (Currently amended) The isolated protein of Claim 52, wherein said <u>isolated</u> protein comprises the amino acid sequence or <u>of</u> SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:18 or SEQ ID NO:21.
- 55. (Currently amended) The isolated protein of Claim 52, wherein said isolated protein consists of the amino acid sequence or of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:18 or SEQ ID NO:21.
- 56. (Currently amended) An isolated protein encoded by a polynucleotide sequence of at least 150 nucleotides in length, wherein said polynucleotide sequence of at least 150

nucleotides in length hybridizes in a solution comprising 1X SSC and 0% formamide at a temperature of about 50° C to a nucleic acid sequence selected from the group consisting of SEQ ID NO:16, SEQ ID NO:19 and SEQ ID NO:22, wherein said isolated-protein binds an antibody produced against a protein having the amino acid sequence of SEQ ID NO:15 specifically binds said isolated protein.

- 57. (Currently amended) The isolated protein of Claim 56, wherein said <u>isolated</u> protein is encoded by a nucleic acid sequence at least about 95% identical to a nucleic acid sequence selected from SEQ ID NO:14, SEQ ID NO:17 or SEQ ID NO:20.
- 58. (Currently amended) The isolated protein of Claim 56, wherein said <u>isolated</u> protein is encoded by a nucleic acid sequence comprising a sequence selected from SEQ ID NO:14, SEO ID NO:17 or SEO ID NO:20.
- 59. (Currently amended) The isolated protein of Claim 56, wherein said <u>isolated</u> protein is encoded by a nucleic acid sequence selected from SEQ ID NO:14, SEQ ID NO:17 or SEQ ID NO:20.
  - 60. (Currently amended) An isolated protein selected from the group consisting of:
- (a) an isolated protein comprising an at least 30 contiguous amino acid region identical in sequence to an at least 30 amino acid region from SEQ ID NO:15, SEQ ID NO:18 or SEQ ID NO:21; and
- (b) an isolated protein comprising an amino acid sequence at least about 90% identical to a sequence selected from SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:18 or SEQ ID NO:21,

wherein said-isolated protein of (a) or (b) binds an antibody produced against a protein having the amino acid sequence of SEQ ID NO:15 selectively binds to said isolated protein of faller (b).

- 61. (Previously presented) The isolated protein of Claim 60, wherein said isolated protein comprises an amino acid sequence selected from SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:18 or SEQ ID NO:21.
- 62. (Previously presented) The isolated protein of Claim 60, wherein said isolated protein consists of an amino acid sequence selected from SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:18 or SEQ ID NO:21.
- 63. (Currently amended) The isolated protein of Claim 60, wherein said <u>isolated</u> protein comprises an epitope having at least one identifying characteristic selected from the group consisting of:
  - (a) said epitope is resistant to β-elimination of peptides;
  - (b) said epitope is resistant to Proteinase-K digestion; and
  - (c) said epitope is reactive to a test designed to detect glycosylated proteins,

wherein said epitope binds to an IgE selected from the group consisting of canine IgE from dogs allergic to mites and feline IgE from cats allergic to mites <u>selectively binds to said epitope</u>.

- 64. (Currently amended) A kit for testing if an animal is susceptible to or has an allergic response to a mite, said kit comprising the isolated protein of Claim 60.
- 65. (Currently amended) A therapeutic composition for treating an allergic response to a mite comprising the isolated protein of Claim 60.

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not l	imited to the items checked:
☐ BLACK BORDERS	
☐ IMAGE CUT OFF AT TOP, BOTTOM OR S	IDES
FADED TEXT OR DRAWING	
BLURRED OR ILLEGIBLE TEXT OR DRA	WING
☐ SKEWED/SLANTED IMAGES	
COLOR OR BLACK AND WHITE PHOTOG	GRAPHS
☐ GRAY SCALE DOCUMENTS	
LINES OR MARKS ON ORIGINAL DOCUM	MENT
REFERENCE(S) OR EXHIBIT(S) SUBMIT	TED ARE POOR QUALITY
OTHER:	

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.